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NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY

NEWS 8 SEP 22 MATHDI to be removed from STN

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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability

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FULL ESTIMATED COST 0.21 0.21

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STRUCTURE FILE UPDATES: 25 SEP 2005 HIGHEST RN 863878-84-6 DICTIONARY FILE UPDATES: 25 SEP 2005 HIGHEST RN 863878-84-6

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> Uploading C:\Program Files\Stnexp\Queries\10743287.str

OH
$$25/26$$
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chain nodes : 23 10 11 12 13 14 15 16 17 18 19 1 2 3 4 5 6 7 8 26 27 28 chain bonds : 1-2 1-16 1-18 2-3 2-25 2-26 3-4 4-5 5-6 6-7 7-8 8-9 8-20 9-10 10-11 11-12 12-13 13-14 14-15 14-27 14-28 15-17 15-19 18-23 19-22 exact/norm bonds : 1-16 1-18 8-20 15-17 15-19 18-23 19-22 exact bonds : 1-2 2-3 2-25 2-26 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 13-14 14-15 14-27 14-28

G1:H,Ak

Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS 20:CLASS 22:CLASS 23:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS
Page 2

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 17:07:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 581 TO ITERATE

100.0% PROCESSED 581 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

10174 TO 13066

PROJECTED ANSWERS:

0 TO

L2

0 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 17:07:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 11481 TO ITERATE

100.0% PROCESSED 11481 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL SESSION

ENTRY SESSION 161.33 161.54

FULL ESTIMATED COST

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FILE COVERS 1907 - 26 Sep 2005 VOL 143 ISS 14 FILE LAST UPDATED: 25 Sep 2005 (20050925/ED)

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=> s 13

L4

2 L3

=> d l4 ibib hitstr abs 1-2

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:648491 CAPLUS

141:190505 DOCUMENT NUMBER:

Preparation of hydroxyl compounds for cholesterol TITLE:

management and related uses

Dasseux, Jean-Louis Henri; Oniciu, Daniela Carmen INVENTOR(S):

Esperion Therapeutics, Inc., USA PATENT ASSIGNEE(S):

PCT Int. Appl., 348 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA	PATENT NO.					KIND DATE			i	APPL:	ICAT:	ION I	DATE					
WO	2004	0674	89		A2 20040812					WO 2	003-1	US414	411	20031223				
WO	2004	0674	89		A3		2004	1125										
WO	2004	0674	89		C1 2005021													
		ΑE,							BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
					CZ,													
		GH.	GM.	HR.	HU,	ID.	IL.	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	
		LR	LS.	LT.	LU,	LV.	MA.	MD.	MG.	MK.	MN.	MW.	MX,	MZ,	NI,	NO,	NZ,	
		OM.	PG.	PH.	PL,	PT.	RO.	RU.	SC.	SD.	SE.	SG,	SK,	SL,	SY,	TJ,	TM,	
		T'N	TR.	ΤТ.	TZ,	UA.	UG.	US.	UZ.	VC.	VN.	YU,	ZA,	ZM,	ZW			
	DW.	BW,	GH,	GM	KE,	LS.	MW.	MZ.	SD.	SL.	SZ.	TZ.	UG.	ZM.	ZW.	AM,	AZ,	
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PRIORIT										US 2	003-	441/.	95P		2	0030.	123	
OTHER S	OURCE	(S):			MARI	PAT	141:	1905	05	1.	7					ته ئــ		
IT 73	738606-46-7P, 8-Hydroxy-2,2,14,14-tetramethylpentadecanedioic acid																	

OTH IT RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(anticholesteremic agent; preparation of hydroxyalkanes for cholesterol management and related uses)

738606-46-7 CAPLUS RN

Pentadecanedioic acid, 8-hydroxy-2,2,14,14-tetramethyl- (9CI) (CA INDEX CNNAME)

738606-64-9, 8-Hydroxy-2,2,14,14-tetramethylpentadecanedioic acid IT diethyl ester

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of hydroxyalkanes for cholesterol management and related uses)

738606-64-9 CAPLUS RN

CN Pentadecanedioic acid, 8-hydroxy-2,2,14,14-tetramethyl-, diethyl ester (9CI) (CA INDEX NAME)

GI

$$Y^{1}-(CH_{2})_{m}$$
 R^{1}
 $(CH_{2})_{n}$
 $(CH_{2})_{n}$
 $(CH_{2})_{n}$
 $(CH_{2})_{m}$
 $(CH_{$

Title hydroxyalkanes I [wherein m = 0-5; n = 3-7; X = (CH2)p or CH2; p = 0.00AB 0-4; R1, R2, R11, R12 = independently H, alkyl, alkenyl, alkynyl, Ph, PhCH2, wherein R1, R2, R11, and R12 are not simultaneously H; Y1, Y2 = independently alkyl, OH, CO2H, CO2R3, SO3H, (un) substituted heterocyclyl, (di)phosphate and triphosphate esters, etc.; R3 = (un)substituted alkyl, alkenyl, alkynyl, Ph, PhCH2; and pharmaceutically acceptable salts, hydrates, solvates, or mixts. thereof] were prepared for cholesterol management. Thus, reduction of 7-oxo-2,2,12,12-tetramethyltridecanedioic acid di-Et ester with Na(BH4) in MeOH gave 7-hydroxy-2,2,12,12tetramethyltridecanedioic acid di-Et ester (92%), which was saponified with KOH in EtOH to afford the diacid II (95%). The latter inhibited lipid synthesis in primary rat hepatocytes with IC50 of 3.4 μM . In addition, the present invention relates to I, compns. comprising I, and methods useful for treating and preventing a variety of diseases and conditions such as, but not limited to aging, Alzheimer's disease, cancer, cardiovascular disease, diabetic nephropathy, diabetic retinopathy, a disorder of glucose metabolism, dyslipidemia, dyslipoproteinemia, hypertension, impotence, inflammation, insulin resistance, lipid elimination in bile, obesity, oxysterol elimination in bile, pancreatitis, Parkinson's disease, a peroxisome proliferator activated receptor-associated disorder, phospholipid elimination in bile, renal disease, septicemia, metabolic syndrome disorders (e.g., Syndrome X), thrombotic disorder. Compds. and methods of the invention can also be used to modulate C reactive protein or enhance bile production in a patient (no data). certain embodiments, I, compns. comprising I, and methods of the invention are useful in combination therapy with other therapeutics, such as hypocholesterolemic and hypoglycemic agents.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:518921 CAPLUS

DOCUMENT NUMBER: 141:236191

TITLE: Effects of a novel dual lipid synthesis inhibitor and

its potential utility in treating dyslipidemia and

metabolic syndrome

AUTHOR(S): Cramer, Clay T.; Goetz, Brian; Hopson, Krista L. M.;

Fici, Gregory J.; Ackermann, Rose M.; Brown, Stephen C.; Bisgaier, Charles L.; Rajeswaran, W. G.; Oniciu,

Daniela C.; Pape, Michael E.

CORPORATE SOURCE:

Esperion Therapeutics, Inc., Ann Arbor, MI, 48108, USA

Journal of Lipid Research (2004), 45(7), 1289-1301

CODEN: JLPRAW; ISSN: 0022-2275

PUBLISHER: American Society for Biochemistry and Molecular

Biology, Inc.

DOCUMENT TYPE:

Journal English

LANGUAGE: 1T 7386

SOURCE:

738606-46-7, ESP 55016

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(effects of lipid synthesis inhibitor and its potential utility in treating dyslipidemia and metabolic syndrome)

RN 738606-46-7 CAPLUS

CN Pentadecanedioic acid, 8-hydroxy-2,2,14,14-tetramethyl- (9CI) (CA INDEX NAME)

We have identified a novel ω -hydroxy-alkane dicarboxylic acid, ESP AB 55016, that favorably alters serum lipid variables in obese female Zucker (fa/fa) rats. ESP 55016 reduced serum non-HDL-cholesterol (non-HDL-C), triglyceride, and nonesterified fatty acid levels while increasing serum $\mathtt{HDL-C}$ and β -hydroxybutyrate levels in a dose-dependent manner. ESP 55016 reduced fasting serum insulin and glucose levels while also suppressing weight gain. In primary rat hepatocytes, ESP 55016 increased the oxidation of [14C]palmitate in a dose- and carnitine palmitoyl transferase-I (CPT-I) -dependent manner. Furthermore, in primary rat hepatocytes and in vivo, ESP 55016 inhibited fatty acid and sterol synthesis. The "dual inhibitor" activity of ESP 55016 was unlikely attributable to the activation of the AMP-activated protein kinase (AMPK) pathway because AMPK and acetyl-CoA carboxylase (ACC) phosphorylation states as well as ACC activity were not altered by ESP 55016. Further studies indicated the conversion of ESP 55016 to a CoA derivative in vivo. ESP 55016-CoA markedly inhibited the activity of partially purified ACC. The activity of partially purified HMG-CoA reductase was not altered by the xenobiotic-CoA. These data suggest that ESP 55016-CoA favorably alters lipid metabolism in a model of diabetic dyslipidemia in part by initially inhibiting fatty acid and sterol synthesis plus enhancing the oxidation of fatty acids through the ACC/malonyl-CoA/CPT-I regulatory axis.

REFERENCE COUNT: 70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil reg COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 11.23 172.77

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY TOTAL SESSION

CA SUBSCRIBER PRICE

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STRUCTURE FILE UPDATES: 25 SEP 2005 HIGHEST RN 863878-84-6 DICTIONARY FILE UPDATES: 25 SEP 2005 HIGHEST RN 863878-84-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Program Files\Stnexp\Queries\107432871.str

chain nodes:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 22 23
chain bonds:
1-2 1-16 1-18 2-3 3-4 4-5 5-6 6-7 7-8 8-9 8-20 9-10 10-11 11-12 12-13
13-14 14-15 15-17 15-19 18-23 19-22
exact/norm bonds:
1-16 1-18 8-20 15-17 15-19 18-23 19-22
exact bonds:

1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15

G1:H,Ak

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 22:CLASS 23:CLASS

L5 STRUCTURE UPLOADED

=> s 15

SAMPLE SEARCH INITIATED 17:09:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 12887 TO ITERATE

15.5% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 250940 TO 264540 PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 ful FULL SEARCH INITIATED 17:10:03 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 254675 TO ITERATE

98.2% PROCESSED 250033 ITERATIONS

5 ANSWERS

O ANSWERS

100.0% PROCESSED 254675 ITERATIONS

6 ANSWERS

SEARCH TIME: 00.00.18

L7 6 SEA SSS FUL L5

=> d 17 ibib hitstr abs 1-6

'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

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REG - RN

SAM - Index Name, MF, and structure - no RN FIDE - All substance data, except sequence data

IDE - FIDE, but only 50 names SOIDE - IDE, plus sequence data

SOIDE3 - Same as SQIDE, but 3-letter amino acid codes are used

SOD - Protein sequence data, includes RN

SOD3 - Same as SQD, but 3-letter amino acid codes are used

SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties EPROP - Table of experimental properties

PROP - EPROP and CALC

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ABS -- Abstract

APPS -- Application and Priority Information

BIB -- CA Accession Number, plus Bibliographic Data

CAN -- CA Accession Number

CBIB -- CA Accession Number, plus Bibliographic Data (compressed)

IND -- Index Data

IPC -- International Patent Classification

PATS -- PI, SO

STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels IBIB -- BIB, indented, with text labels

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields. HELP FORMATS -- To see detailed descriptions of the predefined formats. ENTER DISPLAY FORMAT (IDE):end

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 161.76 334.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL
ENTRY
SESSION
CA SUBSCRIBER PRICE
0.00 -1.46

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=> d his

L1

(FILE 'HOME' ENTERED AT 17:07:03 ON 26 SEP 2005)

FILE 'REGISTRY' ENTERED AT 17:07:11 ON 26 SEP 2005

STRUCTURE UPLOADED

L2 0 S L1

L3 2 S L1 FUL

FILE 'CAPLUS' ENTERED AT 17:07:41 ON 26 SEP 2005

L4 2 S L3

FILE 'REGISTRY' ENTERED AT 17:09:40 ON 26 SEP 2005

L5 STRUCTURE UPLOADED

L6 0 S L5

L7 6 S L5 FUL

FILE 'CAPLUS' ENTERED AT 17:10:59 ON 26 SEP 2005

=> s 17

L8 5 L7

=> d 18 ibib hitstr abs 1-5

L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:411319 CAPLUS

DOCUMENT NUMBER: 143:97083

TITLE: Organozinc alkoxide-promoted aldol-Tishchenko reaction

of aliphatic aldehydes: an expedient entry to prepare

the α -methylene ketones

AUTHOR(S): Hon, Yung-Son; Chang, Chun-Ping

CORPORATE SOURCE: Department of Chemistry and Biochemistry, National

Chung Cheng University, Taipei, 621, Peop. Rep. China

SOURCE: Tetrahedron (2005), 61(22), 5267-5275

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE:

LANGUAGE:

English

LANGUAGE: IT 856895-80-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of α -methylene ketones via organozinc alkoxide-promoted aldol-Tishchenko reaction of aliphatic aldehydes and subsequent oxidation

and

elimination)

856895-80-2 CAPLUS RN

Pentadecanedioic acid, 8-hydroxy-7-[[(8-methoxy-1,8-dioxooctyl)oxy]methyl]-CN , dimethyl ester (9CI) (CA INDEX NAME)

I-ProZnEt is an excellent reagent to promote the aldol-Tishchenko reaction AB of the aliphatic aldehydes tethered with other labile functional groups. The 1,3-diol monoesters were formed as the major products, which could be converted to α -methylene ketones in two steps in good yields. E.g., reaction of BnCH2CHO in presence of i-PrOZnEt gave BnCH2CH(OH)CHBnCH2O2CCH2Bn as the major product and BnCH2CH(O2CCH2Bn)CHBnCH2OH as the minor product. Oxidation of the mixture of products by PCC gave BnCH2COCHCH2O2CCH2Bn as the major product. Treatment of this ketone by DBU led to the $\alpha\text{-methylene}$ ketone BnCH2COCBn:CH2.

THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 46 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:648491 CAPLUS

DOCUMENT NUMBER:

141:190505

TITLE:

Preparation of hydroxyl compounds for cholesterol

management and related uses

INVENTOR(S):

Dasseux, Jean-Louis Henri; Oniciu, Daniela Carmen

Esperion Therapeutics, Inc., USA

SOURCE:

PCT Int. Appl., 348 pp. CODEN: PIXXD2

Patent

DOCUMENT TYPE:

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO.					KIND		DATE		APPLICATION NO.						DATE				
-				A2 20040812						WO 2003-US41411						20031223			
WO	2004	0674	39		A3		20041125												
WO	2004				C1	-		0217											
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		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DΖ,	EC,	EE,	EG,	ES,	FI,	GB,	GD_{λ}	GE,		
		GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,		
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		ES.	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,		
		TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG	
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us	2005	0432	78		A1		2005	0224	1	US 2	003-	7434	70		2	0031	223		
PRIORITY												4417				0030			

OTHER SOURCE(S): MARPAT 141:190505

738606-46-7P, 8-Hydroxy-2,2,14,14-tetramethylpentadecanedioic acid 738606-61-6P, 8-Hydroxy-2,2,12,12-tetramethylpentadecanedioic acid diethyl ester

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(anticholesteremic agent; preparation of hydroxyalkanes for cholesterol management and related uses)

RN 738606-46-7 CAPLUS

CN Pentadecanedioic acid, 8-hydroxy-2,2,14,14-tetramethyl- (9CI) (CA_INDEX NAME)

RN 738606-61-6 CAPLUS

CN Pentadecanedioic acid, 8-hydroxy-2,2,12,12-tetramethyl-, diethyl ester (9CI) (CA INDEX NAME)

738606-64-9, 8-Hydroxy-2,2,14,14-tetramethylpentadecanedioic acid diethyl ester

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of hydroxyalkanes for cholesterol management and related uses)

RN 738606-64-9 CAPLUS

CN Pentadecanedioic acid, 8-hydroxy-2,2,14,14-tetramethyl-, diethyl ester (9CI) (CA INDEX NAME)

O Me OH Me O
$$| | | |$$
 EtO-C-C-(CH₂)₅-CH-(CH₂)₅-C-C-OEt Me Me

GI

$$Y^{1}-(CH_{2})_{\mathfrak{m}}$$
 R^{1}
 $(CH_{2})_{\mathfrak{n}}$
 $(CH_{2})_{\mathfrak{n}}$
 $(CH_{2})_{\mathfrak{n}}$
 $(CH_{2})_{\mathfrak{m}}$
 $(CH_{2})_{\mathfrak{m}$

Title hydroxyalkanes I [wherein m = 0-5; n = 3-7; X = (CH2)p or CH2; p = 0.5AB 0-4; R1, R2, R11, R12 = independently H, alkyl, alkenyl, alkynyl, Ph, PhCH2, wherein R1, R2, R11, and R12 are not simultaneously H; Y1, Y2 = independently alkyl, OH, CO2H, CO2R3, SO3H, (un) substituted heterocyclyl, (di)phosphate and triphosphate esters, etc.; R3 = (un)substituted alkyl, alkenyl, alkynyl, Ph, PhCH2; and pharmaceutically acceptable salts, hydrates, solvates, or mixts. thereof] were prepared for cholesterol management. Thus, reduction of 7-oxo-2,2,12,12-tetramethyltridecanedioic acid di-Et ester with Na(BH4) in MeOH gave 7-hydroxy-2,2,12,12tetramethyltridecanedioic acid di-Et ester (92%), which was saponified with KOH in EtOH to afford the diacid II (95%). The latter inhibited lipid synthesis in primary rat hepatocytes with IC50 of 3.4 μM. In addition, the present invention relates to I, compns. comprising I, and methods useful for treating and preventing a variety of diseases and conditions such as, but not limited to aging, Alzheimer's disease, cancer, cardiovascular disease, diabetic nephropathy, diabetic retinopathy, a disorder of glucose metabolism, dyslipidemia, dyslipoproteinemia, hypertension, impotence, inflammation, insulin resistance, lipid elimination in bile, obesity, oxysterol elimination in bile, pancreatitis, Parkinson's disease, a peroxisome proliferator activated receptor-associated disorder, phospholipid elimination in bile, renal disease, septicemia, metabolic syndrome disorders (e.g., Syndrome X), thrombotic disorder. Compds. and methods of the invention can also be used to modulate C reactive protein or enhance bile production in a patient (no data). certain embodiments, I, compns. comprising I, and methods of the invention are useful in combination therapy with other therapeutics, such as hypocholesterolemic and hypoglycemic agents.

ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

2004:518921 CAPLUS ACCESSION NUMBER:

141:236191 DOCUMENT NUMBER:

Effects of a novel dual lipid synthesis inhibitor and TITLE:

its potential utility in treating dyslipidemia and

metabolic syndrome

Cramer, Clay T.; Goetz, Brian; Hopson, Krista L. M.; AUTHOR (S):

Fici, Gregory J.; Ackermann, Rose M.; Brown, Stephen C.; Bisgaier, Charles L.; Rajeswaran, W. G.; Oniciu,

Daniela C.; Pape, Michael E.

Esperion Therapeutics, Inc., Ann Arbor, MI, 48108, USA CORPORATE SOURCE:

Journal of Lipid Research (2004), 45(7), 1289-1301 SOURCE:

CODEN: JLPRAW; ISSN: 0022-2275

American Society for Biochemistry and Molecular PUBLISHER:

Biology, Inc.

Journal DOCUMENT TYPE:

English LANGUAGE:

738606-46-7, ESP 55016 IT

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(effects of lipid synthesis inhibitor and its potential utility in treating dyslipidemia and metabolic syndrome)

RN 738606-46-7 CAPLUS

Pentadecanedioic acid, 8-hydroxy-2,2,14,14-tetramethyl- (9CI) (CA INDEX CN

We have identified a novel ω -hydroxy-alkane dicarboxylic acid, ESP AB 55016, that favorably alters serum lipid variables in obese female Zucker (fa/fa) rats. ESP 55016 reduced serum non-HDL-cholesterol (non-HDL-C), triglyceride, and nonesterified fatty acid levels while increasing serum HDL-C and β -hydroxybutyrate levels in a dose-dependent manner. ESP 55016 reduced fasting serum insulin and glucose levels while also suppressing weight gain. In primary rat hepatocytes, ESP 55016 increased the oxidation of [14C]palmitate in a dose- and carnitine palmitoyl transferase-I (CPT-I)-dependent manner. Furthermore, in primary rat hepatocytes and in vivo, ESP 55016 inhibited fatty acid and sterol synthesis. The "dual inhibitor" activity of ESP 55016 was unlikely attributable to the activation of the AMP-activated protein kinase (AMPK) pathway because AMPK and acetyl-CoA carboxylase (ACC) phosphorylation states as well as ACC activity were not altered by ESP 55016. Further studies indicated the conversion of ESP 55016 to a CoA derivative in vivo. ESP 55016-CoA markedly inhibited the activity of partially purified ACC. The activity of partially purified HMG-CoA reductase was not altered by the xenobiotic-CoA. These data suggest that ESP 55016-CoA favorably alters lipid metabolism in a model of diabetic dyslipidemia in part by initially inhibiting fatty acid and sterol synthesis plus enhancing the oxidation of fatty acids through the ACC/malonyl-CoA/CPT-I regulatory axis.

THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS 70 REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

1987:196107 CAPLUS ACCESSION NUMBER:

106:196107 DOCUMENT NUMBER:

Enamine condensation on derivatives of aleuritic acid TITLE:

and synthesis of (Z)-9-tricosene (muscalure), its

(E) -isomer, and (E) -13-heptacosene

Subramanian, G. B. V.; Mehrotra, Alka; Mehrotra, AUTHOR (S):

Kalpana

Dep. Chem., Univ. Delhi, Delhi, 110007, India CORPORATE SOURCE:

Tetrahedron (1986), 42(14), 3967-72 SOURCE:

CODEN: TETRAB; ISSN: 0040-4020

Journal DOCUMENT TYPE: English LANGUAGE:

CASREACT 106:196107 OTHER SOURCE(S):

93416-11-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as intermediate in synthesis of heptacosene)

93416-11-6 CAPLUS RN

Pentadecanedioic acid, 7,8-dihydroxy-, (R*,R*)- (9CI) (CA INDEX NAME) CN

Relative stereochemistry.

Enamine condensation on (9RS, 10RS) -9, 10, 16-triacetoxyhexadecanoyl chloride AB as well as (7RS,8RS)-7,8-diacetoxy-1,15-pentadecadioyl chloride using 1-morpholino-1-cyclohexene led to chain elongated products with 22 and 27 carbon atoms resp. The 22 carbon product was converted into (Z)-9-tricosene and its E-isomer, while the 27 carbon product led to a synthesis of (E)-13-heptacosene.

ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1985:5642 CAPLUS

DOCUMENT NUMBER:

102:5642

TITLE:

Preparation of some hydroxypentadecane derivatives

from threo-aleuritic acid

AUTHOR(S):

SOURCE:

Subramanian, G. B. V.; Mehrotra, Kalpana

CORPORATE SOURCE:

Dep. Chem., Univ. Delhi, Delhi, 110 007, India Indian Journal of Chemistry, Section B: Organic

Chemistry Including Medicinal Chemistry (1984),

23B(4), 384-5

CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE:

Journal

LANGUAGE:

English

93416-11-6P 93416-12-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) 93416-11-6 CAPLUS

RNPentadecanedioic acid, 7,8-dihydroxy-, (R*,R*)- (9CI) (CA INDEX NAME) CN

Relative stereochemistry.

93416-12-7 CAPLUS RN

Pentadecanedioic acid, 7,8-dihydroxy-, dimethyl ester, (R*,R*)- (9CI) CNINDEX NAME)

Relative stereochemistry.

MeO (CH₂)
$$\stackrel{\text{OH}}{\underset{\text{OH}}{\text{OH}}}$$
 (CH₂) $\stackrel{\text{OMe}}{\underset{\text{OH}}{\text{OH}}}$

The triacetate of threo-aleuritic acid (9,10,16-trihydroxypalmitic acid), on treatment with Pb(OAc)4 and iodine in the presence of light followed by deacetylation gave R(CH2)5CH(OH)CH(OH)(CH2)6R1 (I; R = CH2OH, R1 = CH2I) (II). Acetoxylation and hydrolysis of II gave I (R = R1 = CH2OH). II was reduced to give I (R = CH2OH, R1 = Me). Oxidation of protected I (R = CH2OH; R1 = CH2I, CH2OH, Me) gave the acids I (R = CO2H; R1 = CH2I, CO2H, Me), which were methylated to the resp. esters.

=> file req COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 27.85 362.38 FULL ESTIMATED COST TOTAL SINCE FILE DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) ENTRY SESSION -3.65 -5.11 CA SUBSCRIBER PRICE

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Uploading C:\Program Files\Stnexp\Queries\107432872.str

chain nodes :

1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 22 23

ring nodes : 2 25 26

chain bonds : 1-2 1-16 1-18 2-3 3-4 4-5 5-6 6-7 7-8 8-9 8-20 9-10 10-11 11-12 12-13 13-14 14-15 15-17 15-19 18-23 19-22

ring bonds :

2-25 2-26 25-26

exact/norm bonds :

1-16 1-18 2-25 2-26 8-20 15-17 15-19 18-23 19-22 25-26

exact bonds :

1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15

G1:H,Ak

Match level : .

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 22:CLASS 23:CLASS 25:Atom 26:Atom

STRUCTURE UPLOADED L9

=> s 19

SAMPLE SEARCH INITIATED 17:15:34 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 449 TO ITERATE

100.0% PROCESSED

449 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

7709 TO 10251

PROJECTED ANSWERS:

0 TO

L10

0 SEA SSS SAM L9

=> s 19 ful

FULL SEARCH INITIATED 17:15:39 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -8839 TO ITERATE

100.0% PROCESSED 8839 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L11 1 SEA SSS FUL L9

=> file caplus

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
161.33
523.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE

0.00 -5.11

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=> s 111

L12 1 L11

=> d l12 ibib hitstr abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:648491 CAPLUS

DOCUMENT NUMBER: 141:190505

TITLE: Preparation of hydroxyl compounds for cholesterol

management and related uses

INVENTOR(S): Dasseux, Jean-Louis Henri; Oniciu, Daniela Carmen

PATENT ASSIGNEE(S): Esperion Therapeutics, Inc., USA

SOURCE: PCT Int. Appl., 348 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
WO 2004067489	A2	20040812	WO 2003-US41411	20031223			
WO 2004067489	A3	20041125					
WO 2004067489	C1	20050217					
W: AE, AG, AL,	AM, AT	, AU, AZ, BA	BB, BG, BR, BY, BZ,	CA, CH, CN,			

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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
             GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
             LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
             OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
             TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
             TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                             US 2003-743287
     US 2004209847
                          A1
                                 20041021
                                                                     20031223
                                             US 2003-743109
                                                                     20031223
     US 2004214887
                          A1
                                 20041028
                                             US 2003-743470
                                                                     20031223
     US 2005043278
                          A1
                                 20050224
                                             US 2003-441795P
                                                                     20030123
PRIORITY APPLN. INFO .:
OTHER SOURCE(S):
                         MARPAT 141:190505
   . 738607-05-1P, 13-(1-Carboxycyclopropyl)-8-hydroxy-2,2-
     dimethyltridecanoic acid
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (anticholesteremic agent; preparation of hydroxyalkanes for cholesterol
        management and related uses)
RN
     738607-05-1 CAPLUS
     Cyclopropanetridecanoic acid, 1-carboxy-\eta-hydroxy-\alpha, \alpha-
CN
     dimethyl- (9CI) (CA INDEX NAME)
```

GΙ

$$Y^{1}-(CH_{2})_{m}$$
 R^{1}
 X
 X
 $CH_{2})_{n}$
 R^{11}
 $(CH_{2})_{m}-Y^{2}$
 R^{12}
 R^{11}
 R

Title hydroxyalkanes I [wherein m = 0-5; n = 3-7; X = (CH2)p or CH2; p = 0-4; R1, R2, R11, R12 = independently H, alkyl, alkenyl, alkynyl, Ph, PhCH2, wherein R1, R2, R11, and R12 are not simultaneously H; Y1, Y2 = independently alkyl, OH, CO2H, CO2R3, SO3H, (un)substituted heterocyclyl, (di)phosphate and triphosphate esters, etc.; R3 = (un)substituted alkyl, alkenyl, alkynyl, Ph, PhCH2; and pharmaceutically acceptable salts, hydrates, solvates, or mixts. thereof] were prepared for cholesterol management. Thus, reduction of 7-oxo-2,2,12,12-tetramethyltridecanedioic acid di-Et ester with Na(BH4) in MeOH gave 7-hydroxy-2,2,12,12-

tetramethyltridecanedioic acid di-Et ester (92%), which was saponified with KOH in EtOH to afford the diacid II (95%). The latter inhibited lipid synthesis in primary rat hepatocytes with IC50 of 3.4 µM. In addition, the present invention relates to I, compns. comprising I, and methods useful for treating and preventing a variety of diseases and conditions such as, but not limited to aging, Alzheimer's disease, cancer, cardiovascular disease, diabetic nephropathy, diabetic retinopathy, a disorder of glucose metabolism, dyslipidemia, dyslipoproteinemia, hypertension, impotence, inflammation, insulin resistance, lipid elimination in bile, obesity, oxysterol elimination in bile, pancreatitis, Parkinson's disease, a peroxisome proliferator activated receptor-associated disorder, phospholipid elimination in bile, renal disease, septicemia, metabolic syndrome disorders (e.g., Syndrome X), thrombotic disorder. Compds. and methods of the invention can also be used to modulate C reactive protein or enhance bile production in a patient (no data). certain embodiments, I, compns. comprising I, and methods of the invention are useful in combination therapy with other therapeutics, such as hypocholesterolemic and hypoglycemic agents.

=> file reg COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.29	530.00
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-5.84

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Uploading C:\Program Files\Stnexp\Queries\107432973.str

chain nodes :

1 3 4 5 6 7 8 9 10 11 12 13 15 16 17 18 19 20 22 23

ring nodes :

2 14 25 26 27 28

chain bonds :

1-2 1-16 1-18 2-3 3-4 4-5 5-6 6-7 7-8 8-9 8-20 9-10 10-11 11-12 12-13

13-14 14-15 15-17 15-19 18-23 19-22

ring bonds :

2-25 2-26 14-27 14-28 25-26 27-28

exact/norm bonds :

1-16 1-18 2-25 2-26 8-20 14-27 14-28 15-17 15-19 18-23 19-22 25-26

27-28

exact bonds :

1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15

G1:H,Ak

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 22:CLASS 23:CLASS 25:Atom 26:Atom 27:Atom

28:Atom

STRUCTURE UPLOADED L13

=> s 113

SAMPLE SEARCH INITIATED 17:18:01 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 230 TO ITERATE

100.0% PROCESSED

230 ITERATIONS

O ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

3691 TO 5509 PROJECTED ITERATIONS:

O TO PROJECTED ANSWERS:

0 SEA SSS SAM L13 L14

=> s 113 ful

FULL SEARCH INITIATED 17:18:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4730 TO ITERATE

100.0% PROCESSED 4730 ITERATIONS

2 ANSWERS

-5.84

0.00

SEARCH TIME: 00.00.01

CA SUBSCRIBER PRICE

L15 2 SEA SSS FUL L13

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION

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=> s l15

L16 1 L15

=> file reg

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 2.70 694.03 SINCE FILE TOTAL DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SESSION ENTRY 0.00 -5.84 CA SUBSCRIBER PRICE

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chain nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18 19 20 21
chain bonds :
1-2 1-18 1-19 2-3 3-4 4-5 5-6 6-7 7-8 7-20 8-9 9-10 10-11 11-12 12-13
13-14 13-15 15-17 19-21
exact/norm bonds :
1-18 1-19 7-20 13-14 13-15 15-17 19-21
exact bonds :
1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13

G1:H,Ak

Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS

L17 STRUCTURE UPLOADED

=> s 117

SAMPLE SEARCH INITIATED 17:22:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 12887 TO ITERATE

15.5% PROCESSED 2000 ITERATIONS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 250940 TO 264540

PROJECTED ANSWERS:

0 TO

L18 0 SEA SSS SAM L17

=> s l17 ful

FULL SEARCH INITIATED 17:22:09 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 254675 TO ITERATE

98.1% PROCESSED 249891 ITERATIONS

5 ANSWERS

0 ANSWERS

100.0% PROCESSED 254675 ITERATIONS

SEARCH TIME: 00.00.19

6 ANSWERS

L19 6 SEA SSS FUL L17

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 161.33 855.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -5.84

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=> s 119 L20

3 L19

=> d l20 ibib hitstr abs 1-3

L20 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:648491 CAPLUS

DOCUMENT NUMBER:

141:190505

TITLE:

Preparation of hydroxyl compounds for cholesterol

management and related uses

INVENTOR(S):

Dasseux, Jean-Louis Henri; Oniciu, Daniela Carmen

PATENT ASSIGNEE(S): Esperion Therapeutics, Inc., USA

SOURCE:

PCT Int. Appl., 348 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

WO 2004067489 A2 20040812 WO 2003-US41411 20031223 WO 2004067489 A3 20041125 WO 2004067489 C1 20050217 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	PATENT									APPLICATION NO.									
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OTHER SOURCE(S): MARPAT 141:190505	OTHER SOURCE	(S):			MARI	PAT	141:	1905	05										
IT 738606-33-2P, 7-Hydroxy-2,2,12,12-tetramethyltridecanedioic acid	TT 738606-	33-21	2. 7.	-Hvd:	coxv	-2,2	, 12 ,	12-te	etra	methy	yltr:	ideca	aned:	ioic	aci	d .			
diethyl ester				2		- •													
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(anticholesteremic agent; preparation of hydroxyalkanes for cholesterol	(ant	ichol	leste	erem	ic ac	gent	: pr	epara	atio	n of	hyd	roxya	alkaı	nes :	for	chole	este:	rol	
management and related uses)	mana	gemer	nt ai	nd re	-late	ed u	ses)	_ <u>r</u>			•	•							
RN 738606-33-2 CAPLUS		-					,												
CN Tridecanedioic acid, 7-hydroxy-2,2,12,12-tetramethyl-, diethyl ester (9CI)					. 7-1	hvdr	oxv-	2.2.	12,1	2-tei	tram	ethv:	1-, 0	diet	hyl	este:	r (90	CI)	
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738606-34-3P, 7-Hydroxy-2,2,12,12-tetramethyltridecanedioic acid RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(anticholesteremic agent; preparation of hydroxyalkanes for cholesterol management and related uses)

RN 738606-34-3 CAPLUS

CN Tridecanedioic acid, 7-hydroxy-2,2,12,12-tetramethyl- (9CI) (CA INDEX NAME)

GI

Title hydroxyalkanes I [wherein m = 0-5; n = 3-7; X = (CH2)p or CH2; p = 0.5AΒ 0-4; R1, R2, R11, R12 = independently H, alkyl, alkenyl, alkynyl, Ph, PhCH2, wherein R1, R2, R11, and R12 are not simultaneously H; Y1, Y2 = independently alkyl, OH, CO2H, CO2R3, SO3H, (un) substituted heterocyclyl, (di)phosphate and triphosphate esters, etc.; R3 = (un)substituted alkyl, alkenyl, alkynyl, Ph, PhCH2; and pharmaceutically acceptable salts, hydrates, solvates, or mixts. thereof] were prepared for cholesterol management. Thus, reduction of 7-oxo-2,2,12,12-tetramethyltridecanedioic acid di-Et ester with Na(BH4) in MeOH gave 7-hydroxy-2,2,12,12tetramethyltridecanedioic acid di-Et ester (92%), which was saponified with KOH in EtOH to afford the diacid II (95%). The latter inhibited lipid synthesis in primary rat hepatocytes with IC50 of 3.4 μM. In addition, the present invention relates to I, compns. comprising I, and methods useful for treating and preventing a variety of diseases and conditions such as, but not limited to aging, Alzheimer's disease, cancer, cardiovascular disease, diabetic nephropathy, diabetic retinopathy, a disorder of glucose metabolism, dyslipidemia, dyslipoproteinemia,

hypertension, impotence, inflammation, insulin resistance, lipid elimination in bile, obesity, oxysterol elimination in bile, pancreatitis, Parkinson's disease, a peroxisome proliferator activated receptor-associated disorder, phospholipid elimination in bile, renal disease, septicemia, metabolic syndrome disorders (e.g., Syndrome X), thrombotic disorder. Compds. and methods of the invention can also be used to modulate C reactive protein or enhance bile production in a patient (no data). In certain embodiments, I, compns. comprising I, and methods of the invention are useful in combination therapy with other therapeutics, such as hypocholesterolemic and hypoglycemic agents.

L20 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1987:496416 CAPLUS

DOCUMENT NUMBER:

107:96416

TITLE:

A synthesis of polyoxygenated polycyclic aromatic

compounds via polyketides

AUTHOR (S):

Yamaguchi, Masahiko; Hasebe, Koichi; Shibato, Keisuke;

Nakashima, Hisataka; Minami, Toru

CORPORATE SOURCE:

Dep. Ind. Chem., Kyushu Inst. Technol., Japan

SOURCE:

Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1986),

28th, 627-34 CODEN: TYKYDS

DOCUMENT TYPE:

Journal

LANGUAGE:

Japanese

IT 109873-12-3P 109873-25-8P 109873-26-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation and intramol. cyclization of)

RN 109873-12-3 CAPLUS

CN Tridecanedioic acid, 7-hydroxy-3,5,9,11-tetraoxo-, dimethyl ester (9CI)

(CA INDEX NAME)

RN 109873-25-8 CAPLUS

CN Tridecanedioic acid, 7-ethyl-7-hydroxy-3,5,9,11-tetraoxo-, dimethyl ester (9CI) (CA INDEX NAME)

RN 109873-26-9 CAPLUS

CN Tridecanedioic acid, 7-hydroxy-3,5,9,11-tetraoxo-7-(3-phenylpropyl)-,

dimethyl ester (9CI) (CA INDEX NAME)

GI

Ab biomimetic synthesis of polyoxygenated polycyclic aromatic compds. via polyketides was examined Several polyoxoalkanedioates were generated from dicarboxylic acid derivs. and Me acetoacetate dianion. The intramol. condensation of the resulting polyketo esters gave phenolic compds., e.g., indanone I. Ca(OAc)2 was one of the best catalysts. Treatment of aromatic glutarates with the dianion followed by Ca(OAc)2 afforded polyhydroxy derivs. of anthracene and naphthacene related to the natural products. The arenes were oxidized to the corresponding quinones with O2 under basic conditions. The quinones also are aromatic glutarates, and were subjected to further extension of the ring system. Thus, benzanthracene II, prepared from naphthalene III (R = CO2Me, R1 = CH2CO2Me) via polyketide III [R = (COCH2)2CO2Me, R1 = CH2(COCH2)2CO2Me], as outlined above, was converted to dibenzanthracene IV.

L20 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1941:22768 CAPLUS

DOCUMENT NUMBER: 35:22768
ORIGINAL REFERENCE NO.: 35:3608a-g

TITLE: Wound hormones of plants. V. The synthesis of some

analogs of traumatic acid

AUTHOR(S): English, James, Jr.

SOURCE: Journal of the American Chemical Society (1941), 63,

941-3

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

IT 855245-29-3, Brassylic acid, ζ-hydroxy-

(preparation of)

RN 855245-29-3 CAPLUS

CN Brassylic acid, ζ-hydroxy- (4CI) (CA INDEX NAME)

AB cf. C. A. 34, 1052.9. The following unsatd. dibasic acids were prepared to test their activity as plant wound hormones. Et sebacate chloride, from the acid ester and SOCl2 in 82% yield, b1 129-30°. The aldehyde esters were prepared from the chlorides by Rosemund's method. Δ1-Unsatd. acids were prepared by adding the desired ester to an equivalent amount of CH2(CO2H)2 in 2-3 times its weight of C5H5N, allowing the mixture to stand 3-5 days, heating on the steam bath for 3 h., acidifying and extracting with ether; the crude mixture of acid esters is hydrolyzed with

N EtOH-NaOH, the acids precipitated with dilute HCl and purified by passing the ether solution through a column packed with an intimate mixture of C and supercel, with final crystallization from dilute EtOH or AcOH; the yields were 30-50%. The $\Delta 2$ -unsatd. acids were prepared as above but with the use of PhNMe2 in place of C5H5N, with sufficient dry MeOH to give a homogeneous reaction mixture; the A2-acids were more soluble in ether and less strongly adsorbed on C than the corresponding $\Delta 1$ -acids. I was also prepared by the method of Bergmann (C. A. 35, 79.7) by using pure azelaic semialdehyde. The following dicarboxylic acids were prepared by these methods: Δ1-nonene-1,9- (I), m. 103°; Δ2-isomer, m. 90°; Δ1-decene-1,10-, m. 165°; Δ2-isomer, m. 109°; Δ1-tridecene-1,13-, m. 108.5°; Δ2-isomer, m. 104°. Heating 40 g. Et α, α' -dibromosebacate and 30 g. PhNMe2 at 180° for 16 h. gives a crude yield of 10 g. of 1,7-octadiene-1,8-dicarboxylic acid, m. 236-9° (decomposition); catalytic reduction of 2 g. with PtO2 (addition of 1 mol. of H) gives 0.6 g. of 1-octene-1,8-dicarboxylic acid, m. 173°. Alkylation of CO(CH2CO2H)2 with PrCHICO2Et according to von Pechman and Sidgwick (Ber. 37, 3816(1904)) (refluxing about 8 h. for each stage), hydrolysis of the material boiling above 150° at 1 mm. by refluxing with 4 times its weight of concentrated HCl for 6-8 h. and crystallization from H2O or dilute

EtOH give 52% of
6-undecanone-1,11-dicarboxylic acid (II), m. 114°;
5-nonanone-1,9-dicarboxylic acid, prepared with EtCHICO2H, m. 111°.
Reduction of II with PtO2 and a pressure of 30-40 lb. H in equal vols. of ether and alc. for 2-6 days gives a nearly quant. yield of
6-undecanol-1,11-dicarboxylic acid (III), m. 102-3°;
5-nonanol-1,9-dicarboxylic acid, m. 95°. Heating III with a slight excess of PI3 on the steam bath for 3 h. and refluxing the crude iodo acid with 25% EtOH-KOH for 3 h. give 5-undecene-1,11-dicarboxylic acid, m. 72°; pure 4-nonene-1,9-dicarboxylic acid could not be prepared by this method. All these acids show wound-hormone activity when tested in the presence of the standard co-factor mixture; in all cases the unsatd. acids are more active than the corresponding saturated compds.

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

chain nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18 19 20 21 23 24
chain bonds :
1-2 1-18 1-19 2-3 3-4 4-5 5-6 6-7 7-8 7-20 8-9 9-10 10-11 11-12 12-13
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exact/norm bonds :
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exact bonds :
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G1:H,Ak

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 17:CLASS 18:CLASS

19:CLASS 20:CLASS 21:CLASS 23:CLASS 24:CLASS

L21 STRUCTURE UPLOADED

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SAMPLE SEARCH INITIATED 17:24:41 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 776 TO ITERATE

100.0% PROCESSED 776 ITERATIONS

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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

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PROJECTED ANSWERS:

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FULL SEARCH INITIATED 17:24:51 FILE 'REGISTRY'

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SEARCH TIME: 00.00.01

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L24 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

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DOCUMENT NUMBER:

141:190505

TITLE:

Preparation of hydroxyl compounds for cholesterol

management and related uses

INVENTOR (S):

Dasseux, Jean-Louis Henri; Oniciu, Daniela Carmen

Esperion Therapeutics, Inc., USA PATENT ASSIGNEE(S):

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CN	CN Tridecanedioic acid, 7-hydroxy-2,2,12,12-tetramethyl-, diethyl ester (9CI) (CA INDEX NAME)																			

738606-34-3P, 7-Hydroxy-2,2,12,12-tetramethyltridecanedioic acid RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(anticholesteremic agent; preparation of hydroxyalkanes for cholesterol management and related uses)

RN 738606-34-3 CAPLUS

CN Tridecanedioic acid, 7-hydroxy-2,2,12,12-tetramethyl- (9CI) (CA INDEX NAME)

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$$Y^{1}-(CH_{2})_{\mathfrak{m}}$$
 R^{1}
 $(CH_{2})_{\mathfrak{n}}$
 $(CH_{2})_{\mathfrak{n}}$
 $(CH_{2})_{\mathfrak{n}}$
 $(CH_{2})_{\mathfrak{m}}$
 $(CH_{2})_{\mathfrak{m}}$

Title hydroxyalkanes I [wherein m = 0-5; n = 3-7; X = (CH2)p or CH2; p = 0.00AB 0-4; R1, R2, R11, R12 = independently H, alkyl, alkenyl, alkynyl, Ph, PhCH2, wherein R1, R2, R11, and R12 are not simultaneously H; Y1, Y2 = independently alkyl, OH, CO2H, CO2R3, SO3H, (un) substituted heterocyclyl, (di)phosphate and triphosphate esters, etc.; R3 = (un)substituted alkyl, alkenyl, alkynyl, Ph, PhCH2; and pharmaceutically acceptable salts, hydrates, solvates, or mixts. thereof] were prepared for cholesterol management. Thus, reduction of 7-oxo-2,2,12,12-tetramethyltridecanedioic acid di-Et ester with Na(BH4) in MeOH gave 7-hydroxy-2,2,12,12tetramethyltridecanedioic acid di-Et ester (92%), which was saponified with KOH in EtOH to afford the diacid II (95%). The latter inhibited lipid synthesis in primary rat hepatocytes with IC50 of 3.4 μM. In addition, the present invention relates to I, compns. comprising I, and methods useful for treating and preventing a variety of diseases and conditions such as, but not limited to aging, Alzheimer's disease, cancer, cardiovascular disease; diabetic nephropathy, diabetic retinopathy, a disorder of glucose metabolism, dyslipidemia, dyslipoproteinemia,

hypertension, impotence, inflammation, insulin resistance, lipid elimination in bile, obesity, oxysterol elimination in bile, pancreatitis, Parkinson's disease, a peroxisome proliferator activated receptor-associated disorder, phospholipid elimination in bile, renal disease, septicemia, metabolic syndrome disorders (e.g., Syndrome X), thrombotic disorder. Compds. and methods of the invention can also be used to modulate C reactive protein or enhance bile production in a patient (no data). In certain embodiments, I, compns. comprising I, and methods of the invention are useful in combination therapy with other therapeutics, such as hypocholesterolemic and hypoglycemic agents.

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